EXHIBIT 10

	Page 26!	5
1	UNITED STATES DISTRICT COURT	
	DISTRICT OF NEW JERSEY	
2	CAMDEN VICINAGE	
3		
	: MDL NO. 2875	
4	IN RE: VALSARTAN, :	
	LOSARTAN, AND IRBESARTAN :	
5	PRODUCTS LIABILITY :	
	LITIGATION : VIDEOTAPED DEPOSIT	ION
6	: UPON	
	: ORAL EXAMINATION	
7	: OF	
	: RAMIN (RON) NAJAFI	,
8	X Ph.D., VOLUME II	
9		
10	TRANSCRIPT of the stenographic notes of	of
11	the proceedings in the above-entitled matter, as	
12	taken by and before ELLEN J. GODINO, CCR, RPR, CRCF	₹,
13	held via ZOOM VIDEOCONFERENCE from various location	ıs,
14	with the witness located at 1000 Atlantic Avenue,	
15	Suite 110, Alameda, California, on Wednesday, Janua	ary
16	24, 2023, commencing at 8:10 a.m. Pacific Time.	
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2 (Pages 266 - 269)

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1	EXHIBITS (Continued)	1	software open on your computer?
2		2	A. No, I don't.
2	Number Description Page	3	Q. You don't have any mail or messaging
3 4	Najafi-18 FDA Document entitled 333	4	software open?
•	"Guidance for Industry, Q3A	5	A. (No audible response.)
5	Impurities in New Drug	6	Q. I'm sorry, I didn't hear that.
	Substances," Revision 2 dated	7	A. No, I don't.
6	June 2008, No Bates, 17 Pages	8	Q. Will you agree not to email, message or
7	Najafi-19 FDA Document entitled 340	9	have any other private communications with anyone
8	"Guidance for Industry,	10	while we are on the record?
	Q3B(R2) Impurities in New Drug	11	
9	Products," Revision 3, August		A. Yes, I do.
10	2006, No Bates, 18 Pages	12	Q. Will you agree not to open any documents
10 11		13	on your computer, other than the ones you may be
12		14	shown on the Veritext platform?
13		15	A. Yes, I will.
14		16	Q. Have you had any alcoholic drinks in the
15		17	past eight hours?
16 17		18	A. No, I have not.
18		19	Q. Are you on any medication that would
19		20	prevent you from providing accurate testimony?
20		21	A. No, I do not.
21		22	Q. Is there any other reason you cannot
22 23		23	give complete and accurate testimony today?
24		24	A. No.
25		25	Q. Since the last session of your
	Page 271		Page 273
1	THE VIDEOGRAPHER: Good morning. We are	1	deposition, have you spoken with the plaintiffs'
2			1 , 3 1
_	going on the record at 8:10 a.m. on Tuesday,	2	lawyers in this case?
3	January 24, 2023. This begins Media Unit 1 of the	2 3	
			lawyers in this case?
3	January 24, 2023. This begins Media Unit 1 of the	3	lawyers in this case? A. Yes, I have.
3 4	January 24, 2023. This begins Media Unit 1 of the video-recorded deposition of Dr. Ron Najafi,	3 4	lawyers in this case? A. Yes, I have. Q. How many times?
3 4 5	January 24, 2023. This begins Media Unit 1 of the video-recorded deposition of Dr. Ron Najafi, Volume II, taken by counsel in the matter of In Re:	3 4 5	lawyers in this case? A. Yes, I have. Q. How many times? A. I would say a couple times.
3 4 5 6	January 24, 2023. This begins Media Unit 1 of the video-recorded deposition of Dr. Ron Najafi, Volume II, taken by counsel in the matter of In Re: Valsartan. My name is Ben Pelta-Heller,	3 4 5 6	lawyers in this case? A. Yes, I have. Q. How many times? A. I would say a couple times. Q. And for how long did you speak on each of those two times that you spoke?
3 4 5 6 7 8	January 24, 2023. This begins Media Unit 1 of the video-recorded deposition of Dr. Ron Najafi, Volume II, taken by counsel in the matter of In Re: Valsartan. My name is Ben Pelta-Heller, representing Veritext, and I'm the videographer. The	3 4 5 6 7	lawyers in this case? A. Yes, I have. Q. How many times? A. I would say a couple times. Q. And for how long did you speak on each of those two times that you spoke? A. Ten, 15 minutes.
3 4 5 6 7 8 9	January 24, 2023. This begins Media Unit 1 of the video-recorded deposition of Dr. Ron Najafi, Volume II, taken by counsel in the matter of In Re: Valsartan. My name is Ben Pelta-Heller,	3 4 5 6 7 8 9	lawyers in this case? A. Yes, I have. Q. How many times? A. I would say a couple times. Q. And for how long did you speak on each of those two times that you spoke? A. Ten, 15 minutes. Q. Ten, 15 minutes each?
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3 (Pages 270 - 273)

	Page 274		Page 276
1	deposition, you told me that you had mistakenly	1	MR. NIGH: Form objection.
2	failed to include in your report, or list in	2	A. That is correct.
3	Materials Considered, certain scientific articles	3	Q. [Audio dropout] article by Sun. Is that
4	that you believe support some of your opinions.	4	correct?
5	Correct?	5	(Court Reporter Clarification.)
6	MR. NIGH: Form objection.	6	MS. ROSE: Oh, I'm sorry.
7	A. That's correct.	7	I said, after taking a break,
8	Q. And as I recall, we were specifically	8	plaintiffs' counsel provided me with three documents
9	talking about page 27 to 28 of your report, which was	9	that Dr. Najafi claims supported the proposition we
10	marked as Exhibit 7.	10	just read in his report. And the first one was a
11	MS. ROSE: Can we bring that up?	11	link to a 2010 article by Sun that just included the
12	THE VIDEOGRAPHER: I'm sorry, what page	12	abstract.
13	number?	13	Q. Do you recall that, Dr. Najafi?
14	MS. ROSE: It's Exhibit 7.	14	MR. NIGH: Form objection.
15	Okay. And we're going to page 27 at the	15	A. Yes, I do.
16	bottom. Perfect.	16	MS. ROSE: Can we put up Tab 57.
17	Q. There at the very bottom, about four	17	Q. Dr. Najafi, is this the abstract that
18	lines up, we were talking about your statement that	18	your counsel provided to me during the first session
19	during the quenching of sodium azide with sodium	19	of your deposition?
20	nitrite during both the TEA and zinc chloride	20	MR. NIGH: I actually haven't seen it
21	processes, there was and I'm going to quote	21	come in the documents yet.
22	here "a substantial risk during this step that	22	MS. ROSE: Oh, okay.
23	nitrous acid is formed, which can nitrosate	23	A. I cannot see it. You know, if you
24	trimethylamine, dimethylamine, and form NDMA, as well	24	could is it on the exhibit portion?
25	as nitrosate triethylamine or diethylamine to form	25	MR. NIGH: It's not there yet.
	Page 275		Page 277
1	NDEA. This is a well-established textbook reaction	1	Q. It's right up on the Zoom screen. It
2	that should be recognized by process chemists working	2	also should be up on the exhibit portion.
3	in the pharmaceutical industry companies" sorry	3	A. Exhibit what?
4	"pharmaceutical industry for companies like ZHP."	4	Q. Oh, sorry, apologies. It should be
5	Correct?	5	Exhibit 15. I'll mark it as that.
6	MR. NIGH: Form objection.	6	A. 15. I don't I don't have it yet.
7	A. Would you highlight the section that	7	MR. NIGH: Dan, have you put it in the
8	you're referring to, because I don't I don't see	8	folder? There it is, I see it now.
9	it on the screen?	9	Just refresh it again, Dr. Najafi.
10	Q. Sure.	10	THE WITNESS: Okay.
11	MS. ROSE: Dan right there. I'm	11	A. Okay, I got it. Give me a sec. This
12	sorry, Ben. Thanks.	12	is the title is, "Theoretical Investigation of
13	A. Okay. Let me just give me a sec.	13	N-Nitrosodimethylamine Formation From Nitrosation of
14	I'm looking at the exhibit in the bigger text to if you'd be kind enough to give me a second so I can	14	Trimethylamine."
15	if you'd be kind enough to give me a second so I can	15	Q. Correct So I'm yearh year That
16	refresh my memory. That's correct.	16	A. Correct. So I'm yeah, yes. That
17 18	Q. Okay. At the time, you agreed that the	17 18	is that is one of the articles. Let me take a look at the pathway they're showing here.
19	document you cited for that proposition, which is on	19	So I am I meant not to cite this
20		20	
20 21	the next page MS. ROSE: We can move to 28. Thank	20	article, per se. Loeppky is the one that I would have cited since that was in my possession at that
22		21 22	time.
23	you. Q. Which is a page of a website about	23	This is an article that, you know, my
24	sodium azide, did not support the whole passage.	24	our lawyers pointed out to me. But it also supports
25	Correct?	25	my, you know, assertion that trimethylamine,
1 40	Concer.	23	my, you know, assertion that unifically lamine,

4 (Pages 274 - 277)

1	Page 278 triethylamine, tripropylamine, basically any trialkyl	1	Page 280 Sun et al. from The Journal of Physical Chemistry,
2	amine, can get nitrosated with nitrosonium ions, and	2	previously marked ZHP-211, was received and marked
3	undergo the pathway that Sun and you know, the	3	for identification.)
4	authors, Sun, et al., are pointing to.	4	A. Okay.
5	Q. Okay. But you did not read this Sun	5	Q. Do you see it now?
6	article prior to forming your opinions in this case?	6	A. No. Oh, yes, I do.
7	A. No.	7	Q. Okay. Great.
8	Q. In addition	8	A. Yeah.
9	A. However let me continue. However,	9	Q. Do you see that the title is
10	this article further substantiates Loeppky, which is	10	"Theoretical Investigation of N-Nitrosodimethylamine
11	the one that I'm relying on.	11	From Nitrosation of Trimethylamine"?
12	Q. Okay. In addition to this online	12	A. That's the that's the Sun article,
13	abstract for the 2010 Sun article, plaintiffs'	13	yes.
14	counsel also provided me, during your first	14	Q. Yeah. So would you agree that this is
15	deposition sorry first session of this	15	the full article for the last exhibit I just showed
16	deposition, with a PDF of an article that was marked		you, which was the online abstract for the same
17	as having been used at the deposition of Peng Dong.	17	article?
18	Do you recall that?	18	A. Give me a second. I would have to
19	A. I believe I do. I have not reviewed	19	
20	that, you know, between our last conversation and	20	confirm that by looking at the the Exhibit 15, just to make sure it is the same.
21	today.	21	
22	•	$\begin{vmatrix} 21\\22\end{vmatrix}$	Q. Well, why don't we go off the record
23	Q. Well, I'll represent that you told me at the first session of your deposition that the	23	just for a second, and you can look at these two and just confirm whether they're the same?
24	plaintiffs' counsel sent this to you sorry, sent	24	
25	that article that was used in the Peng Dong		MR. NIGH: No, that's not an appropriate
23	that afficie that was used in the Feng Dong	25	reason to go off the record.
	Page 279		Page 281
1	deposition; they sent that to you during a break in	1	MS. ROSE: I
2	your deposition.	2	MR. NIGH: I'm sorry. That's not
3	Do you recall that?	3	MS. ROSE: The Court has said that if
4	MR. NIGH: Form objection.	4	he's reviewing documents, that we can go off the
5	A. Yes.		
		5	record.
6	Q. And had you seen	6	MR. NIGH: That's incorrect. That's not
6 7	A. Yes, I do.		MR. NIGH: That's incorrect. That's not what the Court said. It was a whole conversation
6 7 8	A. Yes, I do.Q. Okay, great. Had you seen that article	6 7 8	MR. NIGH: That's incorrect. That's not what the Court said. It was a whole conversation about how much time they need to review a document;
6 7	A. Yes, I do.Q. Okay, great. Had you seen that article that was marked as being used at the Peng Dong	6 7	MR. NIGH: That's incorrect. That's not what the Court said. It was a whole conversation about how much time they need to review a document; not to compare two documents to see if they're the
6 7 8 9 10	A. Yes, I do. Q. Okay, great. Had you seen that article that was marked as being used at the Peng Dong deposition prior to forming your opinions in this	6 7 8 9 10	MR. NIGH: That's incorrect. That's not what the Court said. It was a whole conversation about how much time they need to review a document; not to compare two documents to see if they're the same document.
6 7 8 9 10 11	A. Yes, I do. Q. Okay, great. Had you seen that article that was marked as being used at the Peng Dong deposition prior to forming your opinions in this case?	6 7 8 9 10 11	MR. NIGH: That's incorrect. That's not what the Court said. It was a whole conversation about how much time they need to review a document; not to compare two documents to see if they're the same document. MS. ROSE: All right.
6 7 8 9 10 11 12	A. Yes, I do. Q. Okay, great. Had you seen that article that was marked as being used at the Peng Dong deposition prior to forming your opinions in this case? A. I had.	6 7 8 9 10 11 12	MR. NIGH: That's incorrect. That's not what the Court said. It was a whole conversation about how much time they need to review a document; not to compare two documents to see if they're the same document. MS. ROSE: All right. BY MS. ROSE:
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6 7 8 9 10 11 12 13 14	A. Yes, I do. Q. Okay, great. Had you seen that article that was marked as being used at the Peng Dong deposition prior to forming your opinions in this case? A. I had. Q. All right. MS. ROSE: Let's put up Tab 56.	6 7 8 9 10 11 12 13 14	MR. NIGH: That's incorrect. That's not what the Court said. It was a whole conversation about how much time they need to review a document; not to compare two documents to see if they're the same document. MS. ROSE: All right. BY MS. ROSE: Q. Dr. Najafi, I will give you a minute or so to look through. One is a one-page document
6 7 8 9 10 11 12 13	A. Yes, I do. Q. Okay, great. Had you seen that article that was marked as being used at the Peng Dong deposition prior to forming your opinions in this case? A. I had. Q. All right. MS. ROSE: Let's put up Tab 56. I don't think this is it. Sorry, that's	6 7 8 9 10 11 12 13	MR. NIGH: That's incorrect. That's not what the Court said. It was a whole conversation about how much time they need to review a document; not to compare two documents to see if they're the same document. MS. ROSE: All right. BY MS. ROSE: Q. Dr. Najafi, I will give you a minute or
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6 7 8 9 10 11 12 13 14 15 16	A. Yes, I do. Q. Okay, great. Had you seen that article that was marked as being used at the Peng Dong deposition prior to forming your opinions in this case? A. I had. Q. All right. MS. ROSE: Let's put up Tab 56. I don't think this is it. Sorry, that's my mistake. 58. Here we go. A. This is exhibit number? Q. Oh, sorry, this will be Exhibit	6 7 8 9 10 11 12 13 14 15 16	MR. NIGH: That's incorrect. That's not what the Court said. It was a whole conversation about how much time they need to review a document; not to compare two documents to see if they're the same document. MS. ROSE: All right. BY MS. ROSE: Q. Dr. Najafi, I will give you a minute or so to look through. One is a one-page document A. Okay. Q and it's identical titles and identical dates. A. All right. So let me just double-check
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	A. Yes, I do. Q. Okay, great. Had you seen that article that was marked as being used at the Peng Dong deposition prior to forming your opinions in this case? A. I had. Q. All right. MS. ROSE: Let's put up Tab 56. I don't think this is it. Sorry, that's my mistake. 58. Here we go. A. This is exhibit number? Q. Oh, sorry, this will be Exhibit Number 16. It should show up A. I don't have it. Q. I think Ben is working on putting this into your Exhibit Share.	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	MR. NIGH: That's incorrect. That's not what the Court said. It was a whole conversation about how much time they need to review a document; not to compare two documents to see if they're the same document. MS. ROSE: All right. BY MS. ROSE: Q. Dr. Najafi, I will give you a minute or so to look through. One is a one-page document A. Okay. Q and it's identical titles and identical dates. A. All right. So let me just double-check that. "Theoretical investigation of N-nitroso formation of dimethylamine" and they they seem
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	A. Yes, I do. Q. Okay, great. Had you seen that article that was marked as being used at the Peng Dong deposition prior to forming your opinions in this case? A. I had. Q. All right. MS. ROSE: Let's put up Tab 56. I don't think this is it. Sorry, that's my mistake. 58. Here we go. A. This is exhibit number? Q. Oh, sorry, this will be Exhibit Number 16. It should show up A. I don't have it. Q. I think Ben is working on putting this	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21	MR. NIGH: That's incorrect. That's not what the Court said. It was a whole conversation about how much time they need to review a document; not to compare two documents to see if they're the same document. MS. ROSE: All right. BY MS. ROSE: Q. Dr. Najafi, I will give you a minute or so to look through. One is a one-page document A. Okay. Q and it's identical titles and identical dates. A. All right. So let me just double-check that. "Theoretical investigation of N-nitroso formation of dimethylamine" and they they seem to be
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5 (Pages 278 - 281)

	Page 282		Page 284
1	They, you know, this should be that Exhibit 16	1	Q. Okay.
2	is looks seems like the full article for the	2	MS. ROSE: Okay. Let's pull up the
3	abstract you've previously showed me.	3	Loeppky article. That's going to be Tab 59, and that
4	Q. Okay. And you just testified, when we	4	will be exhibit I'm going to say 17?
5	looked at the abstract for this article, that you had	5	MR. NIGH: Anita, did you want the full
6	found it for the first time during your last session	6	article? That's at Tab 60.
7	of your deposition. Correct?	7	MS. ROSE: Oh, I apologize. Yes, let's
8	MR. NIGH: Form objection.	8	do Tab 60.
9	A. I have reviewed hundreds of articles. I	9	(Exhibit Najafi-17, Article entitled
10	might have reviewed this as well, but I don't believe	10	"Ester-Mediated Nitrosamine Formation from Nitrite
11	I've cited this article in my report.	11	and Secondary or Tertiary Amines," by R.N. Loeppky et
12	Q. Okay. But the full Sun article, which	12	al., from IARC Scientific Publications, No Bates, 11
13	you said that you had read prior to providing your	13	Pages, was received and marked for identification.)
14	report in this case, did you read that full article	14	-
15	before forming your opinions, and are you relying or	l	Q. Okay. So this is a 1984 article entitled "Ester-Mediated Nitrosamine Formation from
16	it for your opinions?		Nitrite and Secondary or Tertiary Amines," by
17	MR. NIGH: Form objection, asked and	16 17	Loeppky. Is that correct?
18	answered.	18	A. That's correct.
19	A. I have not read the full article. I	19	
20	scanned through it, and I I'm not relying on this	20	Q. And it's your testimony that you had this article in your possession, and read it and
21	article for my opinion.	21	relied on it prior to drafting your report. Correct?
22	Q. Okay. All right. Well, let's move on	22	A. Yes, I have.
23	to the Loeppky article which you mentioned. So	23	Q. Dr. Najafi, did ZHP's zinc chloride or
24	that	24	TEA with quenching manufacturing processes
25	A. Loeppky.	25	(Court Reporter Clarification.)
23	и. досррку.	23	(Court Reporter Clarification.)
	Page 283		Page 285
1	Q. Oh, I'm sorry, Loeppky. Thank you for	1	MS. ROSE: Oh, no problem. I'm not
2	Q. Oh, I'm sorry, Loeppky. Thank you for correcting my pronunciation.	2	MS. ROSE: Oh, no problem. I'm not reading, just so you know. I'm just a fast talker.
2 3	Q. Oh, I'm sorry, Loeppky. Thank you for correcting my pronunciation. So the Loeppky article that your counsel	2 3	MS. ROSE: Oh, no problem. I'm not reading, just so you know. I'm just a fast talker. Q. Did ZHP's zinc chloride or TEA with
2 3 4	Q. Oh, I'm sorry, Loeppky. Thank you for correcting my pronunciation. So the Loeppky article that your counsel provided to me during the first session of your	2 3 4	MS. ROSE: Oh, no problem. I'm not reading, just so you know. I'm just a fast talker. Q. Did ZHP's zinc chloride or TEA with quenching manufacturing processes involve the use of
2 3 4 5	Q. Oh, I'm sorry, Loeppky. Thank you for correcting my pronunciation. So the Loeppky article that your counsel provided to me during the first session of your deposition, that is the only new article that you are	2 3 4 5	MS. ROSE: Oh, no problem. I'm not reading, just so you know. I'm just a fast talker. Q. Did ZHP's zinc chloride or TEA with quenching manufacturing processes involve the use of ethylene glycol as a solvent?
2 3 4 5 6	Q. Oh, I'm sorry, Loeppky. Thank you for correcting my pronunciation. So the Loeppky article that your counsel provided to me during the first session of your deposition, that is the only new article that you are relying on for the statements set forth in your	2 3 4 5 6	MS. ROSE: Oh, no problem. I'm not reading, just so you know. I'm just a fast talker. Q. Did ZHP's zinc chloride or TEA with quenching manufacturing processes involve the use of ethylene glycol as a solvent? A. Let me review the, you know that
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2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	Q. Oh, I'm sorry, Loeppky. Thank you for correcting my pronunciation. So the Loeppky article that your counsel provided to me during the first session of your deposition, that is the only new article that you are relying on for the statements set forth in your report. Correct? A. That is correct. However, my assertion that trialkyl amine converts to, effectively, dialkyl nitrosamine has also been substantiated by European Medical Authority, and I think that's another, you know, report that I've cited in my in my expert report. Q. Sure. But I'm just asking, I'm trying to clarify. Because three documents were provided to me in the last session of deposition as new materials that you claim to have reviewed and meant to cite in your deposition. But just for clarification: The only article that you reviewed prior to writing your report, and meant to cite in your report but did not, was this Loeppky article that your counsel provided	2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	MS. ROSE: Oh, no problem. I'm not reading, just so you know. I'm just a fast talker. Q. Did ZHP's zinc chloride or TEA with quenching manufacturing processes involve the use of ethylene glycol as a solvent? A. Let me review the, you know that process. It's in my expert report. Q. Oh? A. Just give me a second. Q. If you want to look at page 25 of your report, which was Exhibit 7. A. Yes, I am looking at it as we speak. Okay. What is and what is your question? Q. I was asking if ZHP's zinc chloride or TEA with quenching manufacturing processes involved the use of ethylene glycol as a solvent? A. No, it does not use ethylene glycol. But your you know, you make your conclusion based on the fact that a trialkyl amine transforms to dialkyl amine, and then it gets nitrosated. And, you know, one, you know, often hypothesizes how a chemical gets transformed, often after the fact,

6 (Pages 282 - 285)

Page 288 Page 286 Q. Okay. And is COOCH3 that you're 1 European Medical Authority, ma'am; and it's also the 1 2 conclusion of Loeppky, based on my review of Loeppky identifying, is that -- would that be defined as a 3 and others, that trialkyl converts to dialkyl, and 3 high-boiling ester? 4 4 then gets nitrosated. You have -- yeah, it is a high-boiling 5 5 To -- you know, to assert that ethylene ester. 6 O. Does it depend on the temperature at 6 glycol is not present, I can tell you that there are 7 which it is used, whether it's a high-boiling ester? other ester moieties are present within the ZHP's manufacturing process. And, you know, and that could 8 MR. NIGH: Form objection. 8 9 9 Something is a high-boiling ester, simply catalyze the process. A. 10 Okay. So if --10 depends on its molecular weight. 11 Okay. Did the zinc chloride or TEA 11 MR. NIGH: And I object to form of the 12 question. 12 processes involve the use of a nitrous ester? 13 MS. ROSE: Okay. 13 No, they do not. 14 Q. Okay. If you look at page 2 of the PDF, 14 I believe the answer at the beginning of 15 which is the fourth full sentence --15 that was no, that ethylene glycol is not involved in MS. ROSE: Sorry, we're going back to 16 16 the manufacturing processes used by ZHP. 17 You also mentioned an ester. Did ZHP's 17 Tab 60, which was, I believe, Exhibit 17. 18 Okay. So we're on page 2 of the PDF, zinc chloride or TEA with quenching processes involve 18 19 the use of the ester 2-acetoxyethanol? 19 fourth full sentence. 20 20 MR. NIGH: Form objection. A. This is Exhibit -- Exhibit --21 O. It's the last exhibit, which I think is 21 Esters are present in the process of the ZHP transformation. The molecule of valsartan 22 17. 22. 23 23 Got it. 17. contains that ester. A. 24 Q. Which ester specifically? 24 MR. NIGH: It shows up as Tab 60, on the 25 25 I would, you know, basically -- do you document. Page 287 Page 289 see the -- right above "Purification Step"? Right 1 Tab 60. 1 O. above the purification step? I don't know if I can 2 MR. NIGH: Yeah. 2 3 3 point to it. Okay. A. 4 (Simultaneous speaking.) It says, "In the course of verifying 5 5 this hypothesis, we have investigated that reaction O. Okay. 6 But you have COO -- COO methyl. COOCH3 of secondary amines with the acetate esters of 6 7 is an ester. ethylene glycol, and sodium nitrite and ethylene 8 glycol. These experiments have been performed to And is that ester 2-acetoxyethanol? 9 It does not have to be. You know, you 9 answer the question: Can esters and ionic nitrite 10 make -- you make your hypothesis based on the fact 10 lead to extensive nitrosation of secondary and that, A, you have this triethylamine impurity; or you tertiary amines? The results presented in this paper 11 11 12 have this tri -- you know, essentially, 12 demonstrate that the answer is yes. Moreover, we diethylamine -- nitrosodimethyl -- diethylamine 13 13 believe that this general reaction scheme is mainly 14 present. And then you look back and see you have responsible for the production of N-nitrosamines in 15 triethylamine; it's a logical conclusion. 15 cosmetics, metal-working fluids, shampoos and other 16 So that's my expert opinion, and it's 16 toiletry articles, as well as certain cooked and cured meats." Correct? 17 also the expert opinion of the authors of European 17 18 18 Medical Authority document, as well as the Loeppky I am reading that statement. 19 and others. 19 Okay. And what is your question 20 Q. Okay. But my specific question was: 20 regarding this statement? You just said COOCH3 was an ester. I'm just asking: 21 This statement states that the point of

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24

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Correct?

the article is to evaluate the role of esters and

ionic nitrite in the formation of nitrosamines.

MR. NIGH: Form objection.

know, I'm not a chemist.

No. No, it is not.

23

24

25

Is that 2-acetoxyl -- sorry -- 2-acetoxylethanol?

That's the only question I'm asking, because I don't

	Page 290		Page 292
1	A. Yes, it it confirms that	1	I'm sorry, you're on Figure 3, I need to go to
2	triethylamine or trimethylamine in the presence of	2	Table 1. Thank you.
3	sodium nitrite and ethylene glycol, or their	3	Q. Are you there, Dr. Najafi?
4	corresponding ethylene glycol esters, could transform	4	Table 1 here is a chart entitled,
5	into, you know, nitrosamines.	5	"Ester-Mediated Nitrosation of Secondary Amines."
6	Q. Do you know if any of the experiments	6	Correct?
7	described in these papers involved a reaction that	7	A. Yes.
8	did not include ethylene glycol specifically?	8	Q. And dimethylamine, the secondary amine
9	MR. NIGH: Form objection.	9	that you say is necessary to form NDMA in the zinc
10	A. Please repeat your question.	10	chloride proces, is not one of the secondary amines
11	Q. You said that this talked about the	11	that were tested. Correct?
12	reaction of sodium nitrite in ethylene glycol or an	12	MR. NIGH: Form objection.
13	ethylene glycol equivalent. But I'm just asking you	13	A. The answer is "correct." However, in
14	to confirm that all of the experiments described in	14	when you are, again, trying to figure out the root
15	these papers did use ethylene glycol, not some other	15	cause, and do a root cause analysis of a genotoxic
16	equivalent?	16	impurity, you rely on other transformations.
17	MR. NIGH: Form objection.	17	Essentially, you say, if one plus one equals two,
18	A. I have not gone thoroughly through the	18	therefore and therefore, one plus two will be
19	paper. I can, if you wish me if you wish, I would	19	equals three. So, you know, you you know, it's
20	go through the entire paper. However, you know, in	20	very much translatable. It's very much in chemical
21	chemistry, and in conducting root cause analysis,	21	reactions, it's you often rely. If trimethylamine
22	which is really what we're doing here, is we have a	22	converts to NDMA, triethylamine will convert to NDEA.
23	genotoxic impurity like tri like NDEA, and we're	23	And tripropylamine, we may not have any
24	trying to figure out where it came from.	24	evidence for tripropylamine. But because
25	In the course of my investigation,	25	trimethylamine converts, therefore tripropyl will
	Page 291		Page 293
1	looking at this trans chemical transformation,	1	too. It's it is very well understood in chemistry
2	it the ethylene glycol can be, you know,	2	for the last probably three, four hundred years.
3	potentially an alcohol. And we have plenty of that	3	Q. Okay. Dr. Najafi, when did you first
4	in the you know, in the in ZHP's	4	personally become aware that dimethylamine, in the
5	transformation. There are esters that are present in	5	presence of sodium nitrite, could result in the
6	the ZHP transformation.	6	formation of NDMA?
7	And there are lots of other evidences	7	MR. NIGH: Form objection.
8	from and statements from other investigators and	8	A. When did I personally your question
9	other chemists, who have speculated that	9	again, when did I personally became aware that
10	triethylamine converts to NDEA. So that's my	10	dimethylamine converts to NDMA?
11	assertion; that's my opinion. And I believe the	11	Q. Yes.
12	source of NDEA is triethylamine.	12	A. I cannot recall. You know, I have been
13	Q. Okay. Again, I was not asking that	13	aware of nitrosamines since the late 1970s, and I
14	question; I was really just asking about the use of	14	have been engaged in the chemistry of nitrosamines.
15	ethylene glycol in this article. But I'll accept	15	I had an interest in essentially avoiding sodium
16	your answer that you, off the top of your head, don't	16	nitrite, in that are associated with curing the
17	know, and the article speaks for itself.	17	meat. So I have been aware of NDMA. I cannot recall
18	A. Yeah.	18	exactly when I became aware of it, what year it was,
19	MS. ROSE: If we can look at page 357 of	19	and what time it was.
20	this document, as noted in the top right-hand corner.	20	Q. Okay. But I wasn't asking when you
21	It's page 5 of the PDF.	21	become aware of NDMA, but when did you first become
22	Q. Can you see that on your paper?	22	aware of the process by which dimethylamine, in the
23	MD MICH. Frame abjection to the	23	presence of sodium nitrite, that then converts to
	MR. NIGH: Form objection to the		-
24 25	colloquy before this. MS. ROSE: It's Table 1. It's Table 1.	24 25	nitrous acid, that then converts to a nitrosonium ion, can result in the formation of NDMA? When did

8 (Pages 290 - 293)

l	Page 294		Page 296
1	that reaction become known to you?	1	Teva and Torrent. Correct?
2	MR. NIGH: Form objection.	2	A. That's correct.
3	A. Probably 20-some years ago.	3	Q. And largely, I'm interested in finding
4	Q. And when did you first read this Loeppky	4	out if you have an intent to offer opinions with
5	article we've been discussing?	5	regard to the finished dose manufacturers, and
6	A. I have become aware of Loeppky article	6	specifically, their conduct in this case. Okay?
7	probably over the last 12 months, I would say,	7	A. Yes.
8	probably 12 months ago, maybe maybe more, as we	8	Q. You have a copy of your expert report
9	were investigating presence of NDMA in various drug	9	with you; I believe it was previously introduced as
10	APIs.	10	Exhibit 7.
11	Q. So you became aware of the Loeppky	11	A. Correct.
12	article after you were retained as an expert in	12	Q. Can you take a look at page 11 of your
13	litigation relating to valsartan?	13	expert report? Let me know when you have that
14	MR. NIGH: Form objection.	14	available.
15	A. That's correct.	15	A. I have page 11 on the PDF.
16	Q. Okay.	16	Q. Please look at page 11 on the numbering
17	MS. ROSE: I'd like to take a break for	17	in your report. So it will be small 11 at the
18	a couple of minutes. Where are we, 8:45? Remind me	18	bottom; I believe it's page 13 of the PDF.
19	again we can go off the record. Remind me again.	19	A. That's exactly right, I have that.
20	THE VIDEOGRAPHER: Going off the video	20	Q. And take a look at the top paragraph of
21	record, the time is 8:46.	21	that section for me. And specifically, I'm
22	(A brief recess takes place.)	22	interested in the sentence about halfway down that
23	THE VIDEOGRAPHER: We are back on the	23	starts, "Finished dose manufacturers reference the
24	video record. The time is 9:03 a.m., and this begins	24	DMFs."
25	Media Unit Number 2.	25	Do you see that?
	Page 295		Page 297
	•		
1	MS. ROSE: I'm going to turn the	1	A. I'm reading hang on a second. So I
1 2	MS. ROSE: I'm going to turn the questioning over now to counsel for Teva.	1 2	-
			A. I'm reading hang on a second. So I
2	questioning over now to counsel for Teva.	2	A. I'm reading hang on a second. So I am yes, "finished dose" okay, I need to read
2 3	questioning over now to counsel for Teva. EXAMINATION BY MR. HARKINS:	2 3	A. I'm reading hang on a second. So I am yes, "finished dose" okay, I need to read the whole paragraph, Steven. Just give me a second.
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	Page 298		Page 300
1	And your answer to that question was:	1	Q. Great.
2	"Finished dose manufacturers, if they had access to	2	Your opinion that a reasonable chemist
3	the DMF, they should have you know, they should	3	from the finished dose manufacturers would have
4	have been aware of the chemical process."	4	identified the potential for nitrosamines to form
5	Do you recall that testimony?	5	assumes that the finished dose manufacturers had
6	MR. NIGH: Form objection.	6	access to chemical the information on ZHP's
7	A. I do.	7	process. Correct?
8	Q. My question, Dr. Najafi: Have you	8	MR. NIGH: Form objection.
9	reviewed documents to determine what information from	9	A. If they had access to ZHP's process,
10	ZHP's DMF on the process was available and known to	10	then they could have conducted a root cause analysis.
11	the finished dose manufacturers, specifically Teva?	11	So the answer is yes.
12	MR. NIGH: Form objection.	12	Q. And if they did not have access to it,
13	A. Steven, I do not know what documents	13	they would not have been able to conduct that
14	Teva has reviewed as it relates to ZHP's Drug Master	14	analysis, naturally. Correct?
15	File. But, you know, there's no question that, you	15	MR. NIGH: Form objection.
16	know, that the finished dose manufacturer is	16	Q. And my question is just with regard to
17	responsible for evaluating the API. If they have	17	that analysis; not another analysis, just that
18	access to the chemical routes of synthesis, then	18	analysis, that root cause analysis that you
19	obviously, they need to do risk analysis. If they	19	described. If they did not have access to it, then
20	don't have access to it, then they need to thoroughly	20	naturally, they wouldn't have been able to conduct
21	test the API, and do what we what I call	21	it. Right?
22	untargeted analysis, similar to what Novartis did.	22	MR. NIGH: Form objection.
23	And Novartis, in this case, is a	23	A. So it's really not root cause analysis;
24	finished dose manufacturer, just like Teva. And do	24	it's really risk analysis. So if they had access to
25	their due diligence with the API, do an identity	25	the routes of synthesis, the chemical the chemical
	Page 299		Page 301
1	test; conduct a residual solvent analysis, which is	1	synthesis, then they could conduct risk analysis of
2	prescribed by the various regulatory authorities; the	2	various reagents that are present.
3	USP, you know, FDA, EMA; everybody prescribes what	3	And there must have been something in
4	they need to do, in order to make sure that their	4	the ANDA that says the route of synthesis was
5	finished dose does not contain any of the Class 1 or	5	changed, so they must have been aware that the
6	genotoxic impurities or solvent impurities. And, you	6	synthetic route has been modified by ZHP, and they
7	know, that would be, you know, the responsibility of	7	could have further investigated that.
8	your client.	8	So there is the there is the upfront
9	In addition, they would need to have a	9	risk analysis, and then there is the back-end
10	quality agreement in place, and also conduct a	10	analysis of the API that your clients should have
11	thorough quality check inspection of the API	11	conducted.
12	manufacturer.	12	Q. Dr. Najafi, I'm talking just
13	Q. Dr. Najafi, I'm not asking generally	13	specifically with respect to the analysis that you
14	about what your opinion is, as to what the finished	14	testified an organic chemist would have been able to
15	dose manufacturers should have done. I understand	15	perform, with access to information about the
16	that from your report.	16	process. If they did not have information about that
17	My question is: You have not analyzed	17	process, they would not have been able to conduct any
18	or reviewed documents to determine what information	18	type of analysis, the analysis that you just
19	on ZHP's chemical processes was actually available to	19	described. Right?
20	the finished dose manufacturers when they submitted	20	MR. NIGH: Form objection.
21	their ANDAs. Correct?	21	A. If the chemists at Teva did not have
22	MR. NIGH: Form objection.	22	access to routes of synthesis, then obviously they
23	A. I do not know whether your client, Teva,	23	could not have conducted a risk analysis. However,
24	has reviewed any material any what they	24	there were indications that ZHP changed the process,

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and they have -- and, you know, and there was

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reviewed, as it relates to ZHP's DMF.

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1	various, you know, information that in the DMF	1	paragraph. Take a moment if you want to refresh on
2	that the process was changed, you know, and various	2	that.
3	solvents were changed and so forth.	3	MR. NIGH: Form objection.
4	So there were some indication that	4	A. Okay.
5	things are not the same as the brand product.	5	Q. Dr. Najafi, neither of the finished dose
6	Q. Dr. Najafi, there is no requirement that	6	manufacturers, Teva or Torrent, are identified by
7	a finished dose manufacturer have access to the	7	name in this section of your report. Correct?
8	closed portion of another company's DMF in order to	8	A. That's correct.
9	manufacture drug products under an ANDA that	9	Q. And there are no citations, either in a
10	references that DMF. Correct?	10	footnote or in the body of the report, to any
11	MR. NIGH: Form objection.	11	documents in this section of your report. Correct?
12	A. Could you repeat your question?	12	A. That's correct.
13	Q. Sure. There is no requirement for a	13	Q. I understand your opinions with respect
14	finished dose manufacturer to have access to the	14	to what a finished dose manufacturer should do in
15	closed portion of another company's DMF, in order to	15	these areas, as you stated already today. Have
16	manufacture drug products under an ANDA that	16	you strike that.
17	references that DMF. Correct?	17	Do you intend to offer opinions on the
18	MR. NIGH: Form objection.	18	adequacy of the supplier qualification process
19	A. That is correct that is correct.	19	performed by the specific finished dose manufacturers
20	However, as I mentioned, the drug substance	20	in this case with respect to ZHP? Have you formed
21	manufacturer should have notified the finished dose	21	those opinions?
22	manufacturer of the changes to the DMF.	22	MR. NIGH: Form objection.
23	Q. Understood.	23	A. Based on yes, I have. So based on
24	I'd like to turn to another area of your	24	the fact that they obviously incorporated the ZHP's
25	report, Dr. Najafi. If you could go to page 36. And	25	API in their final drug and marketed it, it was
	Page 303		Page 30:
1	that is 36 on your report, which I'll confirm, I	1	obvious that they had not done comparable due
2	believe will be page 38 on the PDF.	2	diligence as Novartis, which is another finished dose
3	A. Okay.	3	manufacturer in this case.
4	Q. Let me know when you're there.	4	And they basically must have relied on
5	A. Page 38 of the PDF.	5	ZHP's certificate of analysis, and or they may not
6	Q. Do you see the heading "Qualification of	6	have done sufficient due diligence, you know, to
7	a Drug Substance (API) Supplier by a Finished Dose	7	qualify the API.
8	Manufacturer"?	8	So that is an opinion that I've actually
9	A. No, I don't. Hang on one second. I	9	expressed in various parts of my report, and I'm
10	think you're on page 36 of the PDF. Okay, hang on.	10	expressing right now.
11	Q. It's the section showing on the screen	11	Q. Dr. Najafi, you did not review the
12	share. Again, it's definitely 36 on the small page	12	actual supplier qualification documents from Teva and
13	on the bottom of your report. I believe it's page 38	13	Torrent to form this opinion; you are assuming that
14	of the PDF you're looking at.	14	this process was deficient because whatever they did,
15	A. Right. I'm looking at it.	15	it did not identify the potential for nitrosamines to
16	"Qualification of a Drug Substance (API) Supplier by	16	form during ZHP's manufacturing process. Is that
17	a Finished Dose Finished Drug Product	17	fair?
18	Manufacturer."	18	MR. NIGH: Form objection.
19	Q. And Dr. Najafi, I understand, and I	19	A. That is correct. My opinion is
20	think this paragraph covers a lot of what you talked	20	primarily based on the fact that they allowed this
21	about in response to one of my earlier questions,	21	genotoxic impurity in their finished product and they
22	about what you believe are the obligations of a	22	marketed it, and as opposed to Novartis, who ran a
23	finished dose manufacturer as far as qualifying an	23	very simple GC-FID and saw a very very messy
24	API, validating a supplier, and having a quality	24	chromatogram, you know, in comparison to ZHP's own
25	agreement: I believe are all covered in this	25	certificate of analysis and they said this doesn't

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25 certificate of analysis, and they said, this doesn't

25 agreement; I believe are all covered in this

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1	jive and we need to do further investigation.	1	to say you have not formed opinions that you intend
2	I think my opinion is that ZHP your	2	to offer on the adequacy of those specific areas?
3	client simply rushed and they took they took the	3	MR. NIGH: Form objection.
4	risk. Essentially, they accepted the risk and they	4	A. While I have not reviewed any
5	moved forward.	5	chromatography testing that Teva or Torrent might
6	Q. And just to confirm: When you say	6	have done, the end result is, even if they had done
7	"rushed" or "accepted the risk," that is based on	7	it, they did not do sufficient due diligence. And
8	what you are assuming, based on the fact they failed	8	they might not have done it.
9	to identify the impurity; not your independent review	9	Q. But you just to clarify, you've not
10	of the supplier qualification documents for Teva.	10	reviewed documents to know, one way or another,
11	Right?	11	whether they did it, or whether the specific testing
12	A. Yes.	12	was appropriate or accurate. Correct?
13	Q. So a similar question, and I just want	13	MR. NIGH: Form objection.
14	to make sure I understand where you do and don't have	14	A. I think I think I already answered
15	opinions. Did you evaluate the finished dose	15	the question.
16	manufacturers' quality policies for adequacy?	16	Q. You may have. Is the answer yes?
17	MR. NIGH: Form objection.	17	MR. NIGH: Objection to form.
18	A. I don't believe so.	18	A. As I said, I have not seen any
19	Q. Did you evaluate and form opinions on	19	chromatograms from Teva and Torrent, so I don't
20	the adequacy of the finished dose manufacturers'	20	believe I have seen anything. However, based on the
21	quality management systems?	21	fact that their finished dose their finished
22	A. I don't believe I had access to those	22	product contained the NDMA and they allowed it, so
23	documents.	23	it's obvious that they didn't do sufficient due
24	Q. And then at the end of your paragraph,	24	diligence and sufficient analysis of the API.
25	you refer to quality agreements. Did you review the	25	Q. And Dr. Najafi, I understand your
23			-
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1		1	Page 309
1	finished dose manufacturers' quality agreements with	1	opinion with respect to the due diligence. I'm
2	finished dose manufacturers' quality agreements with ZHP, and form opinions on the adequacy of those	2	opinion with respect to the due diligence. I'm asking specifically with regards to the
2 3	finished dose manufacturers' quality agreements with ZHP, and form opinions on the adequacy of those agreements?	2 3	opinion with respect to the due diligence. I'm asking specifically with regards to the chromatography testing.
2 3 4	finished dose manufacturers' quality agreements with ZHP, and form opinions on the adequacy of those agreements? A. I don't believe that the quality	2 3 4	opinion with respect to the due diligence. I'm asking specifically with regards to the chromatography testing. And I want to just confirm: You have
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12 (Pages 306 - 309)

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	Page 310		Page 312
1	your question. However, the quality the QA	1	A. Do you have anything you want to show
2	inspection by Teva, and the quality agreement, should	2	me, like a, you know, impurity profile, chromatogram?
3	have pointed to potential complaints regarding	3	What are you pointing at? Are you pointing at API
4	impurities pre-2018. And those those should have	4	identity impurities, as it relates to API? Or are
5	raised their sort of doubt about the quality of	5	you pointing to impurities as it relates to residual
6	API.	6	solvents?
7	MR. HARKINS: Thank you, Dr. Najafi.	7	Q. I'm referring to impurities, not with
8	Can we go off the record for a moment?	8	respect to residual solvents; the impurity standards
9	THE VIDEOGRAPHER: Yes.	9	with regard to the API. Does that help clarify the
10	We're going off the video record. The	10	question?
11	time is 9:29 a.m.	11	MR. NIGH: Form objection.
12	(A brief recess takes place.)	12	A. I think you're referring to
13	THE VIDEOGRAPHER: We are back on the	13	impurities as it relates to API, you're referring to
14	video record. The time is 9:51 a.m. This begins	14	USP-related impurities.
15	Media Unit Number 3.	15	Q. Have you reviewed the unidentified
16	BY MR. HARKINS:	16	impurity standards set out in the ANDAs for the
17	Q. Dr. Najafi, during the first day of your	17	finished dose product in this case?
18	deposition last week, you were asked when Emery	18	MR. NIGH: Form objection.
19	Pharma's next FDA inspection was going to be	19	A. I might have.
20	scheduled for. And you answered, "It could be today,	20	Q. But you're not familiar with them, off
21	nobody knows. It's a surprise audit."	21	the top of your head, without seeing a document?
22	Do you recall that testimony?	22	MR. NIGH: Form objection.
23	MR. NIGH: Form objection.	23	A. You know, you need to show me a
24	A. Yes, I do.	24	document.
25	Q. You aren't always able to prepare for a	25	Q. Dr. Najafi, what's a reporting
	Page 311		Page 313
1	FDA audit in advance. Correct?	1	threshold?
2	MR. NIGH: Form objection.	2	MR. NIGH: Form objection.
3	A. You know, are you asking me on the on	3	A. A reporting threshold, as it relates to
4	the Emery side, or on the say, a manufacturer?	4	any impurities, essentially non-genotoxic impurities,
5	Q. In your experience working at Emery	5	is around 0.1, 0.1 percent. However, for genotoxic
6	Pharma, as you testified, it could be a surprise	6	impurities, there are no reporting thresholds.
7	audit. Is it your experience that FDA does not	7	Q. And Dr. Najafi, my question may have
8	always schedule its audits in advance?	8	been confusing. I'm not asking what the specific
9	MR. NIGH: Form objection.	9	reporting threshold is. I'm asking, what is a
10	A. They do not always schedule their audits	10	reporting threshold? What does that delineate as far
11	in advance.	11	as what a manufacturer is required to do if they see
12	Q. And when they perform an audit, do they	12	a result above or below that threshold?
13	always inform you what products or systems are going	13	MR. NIGH: Form objection.
14	to be subject to the audit in advance?	14	A. Do you have anything you want to show
15	MR. NIGH: Form objection.	15	me, point to me?
16	A. I can only only speak from my	16	Q. Are you not familiar with how a
17	experience. And no, they may just come and do a	17	reporting threshold operates, with respect to drug
18	want to do a general audit. They may point to a	18	substances?
19	specific product that they want to focus on. So it's	19	MR. NIGH: Form objection.
20	really entirely up to them.	20	A. You have to define to me what that
21		1	
21	Q. Switching gears a little bit.	21	means.
22	Q. Switching gears a little bit.You're familiar, during your review for	21 22	Q. Assuming that a reporting threshold for
22	You're familiar, during your review for	22	Q. Assuming that a reporting threshold for

13 (Pages 310 - 313)

(Simultaneous speaking.)

25

25 finished dose manufacturers, aren't you?

	r ageib.		
	Page 314		Page 316
1	(Court Stenographer clarification.)	1	You can answer.
2	Q. And I apologize; this may be a long	2	A. So if a finished dose manufacturer or
3	question, but just let me finish it for you,	3	API manufacturer sees an impurity that is below the
4	Dr. Najafi.	4	reporting threshold, 0.05 percent, let's assume, and
5	Assuming that a reporting threshold for	5	they see this impurity repeatedly, and it is,
6	a drug substance is set at 0.05 for purposes of this	6	obviously, a recent impurity in there, they should
7	question, what does that require the drug substance	7	they don't have to they may not have to report it,
8	or finished dose manufacturer testing that drug	8 but they must investigate it.	
9	substance to do with respect to unidentified	9	And if it is let's say, if it's a
10	impurities?	10	harmless solvent, and it's, you know, it's not
11	MR. NIGH: Form objection.	11	they don't need to report it. But if it's a
12	A. I'm assuming you're talking when you	12	genotoxin, then they must report it, and they must
13	say 0.05, you're talking about 0.05 percent?	13	control it, and, you know, put some guardrail around
14	Q. Yes, you're yes, Doctor, that's	14	that impurity.
15	correct. Apologies.	15	Q. And Dr. Najafi, just to confirm from
16	A. So assuming their reporting threshold is	16	your testimony before the break: You did not review
17	0.05 percent, if they see impurities that fall below	17	the results of the chromatograms performed by either
18	0.05 percent, batch after batch, they have the duty	18	of the finished dose manufacturers to determine what,
19	to investigate it. And in this case, not call an	19	if any, levels of unidentified impurities they were
20	impurity it could be 0.0001 percent. If they can	20	seeing in ZHP's API. Correct?
21	see it, and it shows, baseline to baseline, there is	21	MR. NIGH: Form objection, asked and
22	an impurity, they need to identify it. They need to	22	answered.
23	point to it, and, you know, figure out what it is.	23	A. As I mentioned before, I did not review
24	Because it could be a genotoxic agent.	24	ZHP [sic] and Torrent's chromatogram. But if you
25	And if it is a genotoxic agent, then they need to	25	have it in your in front of you, please feel free
-			· · · · · · · · · · · · · · · · · · ·
1	Page 315 control it, they need to figure out why it's being	1	Page 317 to share it with me, and I'll be happy to give you my
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	generated, you know. And if it's a very high-level	2	opinion.
3	genotoxin, you know, then they need to obviously, you	3	Q. Dr. Najafi, I'd like to turn to page 6
4	know, dispose of those batches, and, you know, do	4	of your report to help you with this next question.
5	whatever they need to do: Report it to the agency.	5	That's going to be I apologize, I may have gotten
6		6	the number wrong. Page 6, and it will be page 8 of
	So that's what, you know, a manufacturer, whether it's you know, the API	7	the PDF. Let me know when you're there.
7	manufacturer, whether it's you know, the API manufacturer or finished dose manufacturer, that's		A. Six, yes.
8 9		8 9	•
	what they need to do. And that's what exactly Novartis did. So we're not creating some	10	
10	<u>c</u>		page 6, you reference "a single 320-milligram valsartan tablet."
11	hypothetical situation here. Novartis is a finished	11	
12	dose manufacturer, just like ZHP just like Teva	12	That's the highest daily dose you've
13	and Torrent. And Novartis did the right thing and	13	identified for any valsartan tablet involved in this
14	pointed those impurities and pointed at those	14	case. Correct?
15	impurities, and wanted to figure out what they are.	15	A. Please allow me to read the paragraph
16	Q. But Dr. Najafi, I just want to make sure	16	quickly.
17	that I understand your opinion before we move on.	17	Yes, I read it.
18	It's your expert opinion in this case that a finished dose manufacturer, observing a level	18 19	Q. And just to confirm hopefully, it would help to read your report 320 milligrams is
	mar a mushed dose manifiacilitet. Observing a level		would bein to read your report 370 milliorams is
19 20	of unidentified impurity below the reporting	20	the highest daily dose of valsartan that you're aware

14 (Pages 314 - 317)

21

22

23

25

of. Correct?

Correct.

Okay.

Go to the next page of your report,

A.

Q.

A.

24 seven.

regardless of size?

25 mischaracterizes his testimony.

threshold, is required not only to report, but also

to identify the substance that is causing that peak,

MR. NIGH: Form objection,

21

22

23

24

1	Page 318	1	Page 320	
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	Q. And I'm suspecting you're going to want	1	you know, pills with more parts per million.	
2	to read through these paragraphs that finish this	2	Q. Dr. Najafi, for purposes of this	
3	section.	3	question, I'm going to ask you to assume that the	
4	My question is going to be: Is the	4	reporting threshold for valsartan API is 0.05	
5	240.1 PPM number, identified in the second full	5	percent. 240.1 parts per million would be less than	
6	paragraph on this page, the highest level of NDMA	6 half of that reporting threshold on a chromato		
7	that you have identified reported in valsartan API?	7	Correct?	
8	A. Let me let me review the okay.	8	MR. NIGH: Form objection.	
9	So what is your question?	9 A. I take your word for it.		
10	Q. Based on the paragraph that you just	10	Q. Dr. Najafi, I'm not asking you to take	
11	reviewed, is 240.1 parts per million the highest	11 my word for it. I do ask you to assume the re		
12	level of reported NDMA impurities present in	12 threshold for purposes of this question. But		
13	valsartan API that you're aware of?	13	assuming that that is the reporting threshold, at	
14	A. This is in the previous paragraph?	14	0.05 percent, is it accurate that 240.1 parts per	
15	MR. NIGH: Form objection.	15	million of an NDMA impurity in the valsartan API	
16	Q. Sorry, the continued section, that	16	would be less than half of that reporting threshold?	
17	starts at the top of page 7	17	MR. NIGH: Form objection, vague.	
18	A. Right.	18	A. Okay.	
19	Q. There's a broken paragraph, and then two	19	(Court Stenographer clarification.)	
20	full paragraphs.	20	MR. HARKINS: Did you hear that? Can	
21	A. Right. Okay.	21	you just say your answer again, Dr. Najafi, for the	
22	Q. The bottom of the second paragraph	22	court reporter.	
23	A. Point-two	23 24	A. Yes.	
24 25	Q. Right.A. Could you point to that number of	25	Q. Dr. NajafiMR. HARKINS: And you can take the	
23	A. Could you point to that number of	23	WIK. HAKKINS. And you can take the	
1				
1	Page 319	1	Page 321	
1 2	milligram pills that you're talking about?	1	report down for a moment.	
2	milligram pills that you're talking about? (Simultaneous speaking.)	2	report down for a moment. Q. During questioning last week, you	
2 3	milligram pills that you're talking about? (Simultaneous speaking.) (Court Reporter Clarification.)	2 3	report down for a moment. Q. During questioning last week, you discussed how Emery Pharma assists manufacturers with	
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15 (Pages 318 - 321)

	Page 322		Page 324
1	A. It depends on the product. It depends	1	We often have some chromatograms associated with
2	on what the client is asking us to do. In this case,	2	them. We provide them with all that documentation,
3	if we were to given an API and say, do take a	3	plus a certificate of analysis.
4	look at the here is the certificate of analysis	4	Q. Okay. And I understand that you
5	from the manufacturer, let's say, ZHP; and typically,	5	sometimes do that. Do you sometimes also just
6	it should contain seven solvents, and do residual	6	provide them with a certificate of analysis?
7	solvent analysis.	7	A. Almost always not.
8	And if they do a residual solvent	8	Q. We discussed, during your testimony last
9	analysis, and if they're supposed to have seven	9	week, the April 2021 483 that Emery Pharma received.
10	solvents, and we see 20 different peaks, I think we	10	Do you recall that?
11	immediately contact the client and say, we're seeing	11	A. Yes, I do.
12	far too many peaks here.	12	Q. Do you recall that discussion?
13	Which is really what Novartis saw. And	13	A. Yes, I do.
14	we communicate that to the client and say, "What do	14	Q. And I understand from your testimony
15	you want us to do? You know, we need to investigate	15	that, at some point after receiving that, the issues
16	these other peaks."	16	identified in that 483 were addressed by Emery
17	In this case, you know, 240 parts per	17	Pharma. Correct?
18	million, this translates into one nanogram per	18	MR. NIGH: Form objection.
19	milligram translates into one parts per million.	19	A. That's correct.
20	Right? One nanogram per milligram; that's one part	20	Q. Was Emery Pharma continuing to perform
21	per million. Now, if you are	21	testing and assisting with the release of product for
22	Q. Given that I have very limited time I	22	its customers in April of 2021?
23	almost never want to interrupt, but this is not	23	MR. NIGH: Form objection.
24	remotely responsive.	24	A. Yes, we continued testing and releasing
25	MR. NIGH: Let's go ahead. Let's go	25	product, post inspection.
	Page 323		Page 325
1	ahead. I think it's been answered, too. You can ask	1	Q. And then you continued to do that, while
2	the next question.	2	you were working to correct the issues identified in
3	MR. HARKINS: Okay.	3	the 483. Correct?
4	Q. Dr. Najafi, if my question is confusing	4	MR. NIGH: Form objection.
5	or you're unsure what I'm asking, let me know, so I	5	A. I think I mentioned that in my
6	can kind of try and keep us on track.	6	testimony, that the FDA allowed us to continue our
7	All I'm asking is: Does Emery Pharma	7	release or testing, because they found no issues with
8	sometimes do all of the tests required by a	8	our testing protocols and the chemistry of the work
9	certificate of analysis for release of a finished	9	we did.
10	drug substance or for release of a drug substance?	10	Q. And you did not consider any of the
11	MR. NIGH: Form objection.	11	product released by Emery Pharma, during the time
12	A. We always do what is necessary to	12	that the issues identified in that 483 were present,
13	release a drug substance. In this case, if we had	13	to be adulterated?
14	been tasked for releasing ZHP, we would not have	14	MR. NIGH: Form objection.
15	released it.	15	A. That's correct.
16	Q. Understood.	16	Q. And you didn't take any steps to remove
17	When you provide your clients with the	17	any of that product released, based on testing
18	results of testing, do you provide them with the	18	performed by Emery Pharma, during that time from the
19	certificate of analysis, or do you also provide them	19	market?
20	with all of the raw chromatography and other testing		MR. NIGH: Form objection.
21	data that supports the results in the certificate?	21	A. That's correct, because the 483 was not
22	MR. NIGH: Form objection.	22	related to the actual testing.
23	A It depends Often we provide them with	22	O Understood And you didn't take any

16 (Pages 322 - 325)

Q. Understood. And you didn't take any

concerns about product quality, for product that was

steps to inform patients or physicians about any

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24

25

It depends. Often we provide them with

a report, a full report with chromatograms; be it,

you know, what are some of the prescribed testing.

23

24

25

	Page 326		Page 328	
1	released during the time that those issues were	1	monograph is out the window.	
2	present and being corrected. Correct?	2	Q. Understood.	
3	MR. NIGH: Form objection.	3	Dr. Najafi, are you familiar with how	
4	A. That's correct, because the 483 was not	4	many USP-approved monographs there are?	
5	related to testing. However, we did inform the	5	A. No, I'm not.	
6	many of our clients that we had this 483.		Q. I'll represent to you, for purposes of	
7	7 Q. And just to confirm: When you're saying		this next question, that as stated in the expert	
8	8 "clients," you mean the manufacturers, not patients		report of plaintiffs' retained expert, Dr. Laura	
9	and physicians and things like that. Right?	9	Plunkett, there are over 5,000. Okay? And that's	
10	A. That's correct.	10 just an assumption for the purposes of this next		
11	Q. But you testified just a little bit ago	11	question. All right?	
12			Assuming she is correct and there are	
13	you're releasing to the market, which may or may no	t 13	over 5,000 monographs, are you aware of how many of	
14	be all of the tests required in the certificate of	14	those require the use of GC-MS testing to perform a	
15	analysis. Is that fair?	15	specific assay?	
16	A. Could you repeat your question?	16	A. I'm not sure.	
17	Q. Sure. That was a poor question. Let me	17	Q. Coming back to the testing performed at	
18	strike that and just move on.	18	Emery Pharma, when you perform release testing on	
19	A. I think it was a statement.	19	product well, strike that.	
20	Q. A lot of times, they sound like that.	20	Let me start with a question before	
21	Dr. Najafi, does Emery Pharma have	21	that.	
22	GC-MS?	22	Dr. Najafi, what is structural	
23	A. Yes, we do.	23	characterization?	
24	Q. Do you test all the products released by	24	A. Structural characterization, it refers	
25	Emery Pharma using GC-MS?	25	to what the molecular structure looks like.	
	Page 327		Page 329	
١.				
1	MR. NIGH: Form objection.	1	Q. In the context of an unidentified	
$\begin{vmatrix} 1 \\ 2 \end{vmatrix}$	MR. NIGH: Form objection.A. It depends on the product, and depends	1 2	Q. In the context of an unidentified impurity that shows up on a chromatogram, what is	
2	A. It depends on the product, and depends	2	impurity that shows up on a chromatogram, what is structural characterization?	
2 3 4	A. It depends on the product, and depends on the specifications associated with the product. Q. And when you say "specifications,"	2 3	impurity that shows up on a chromatogram, what is structural characterization? A. It means identifying what that impurity	
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	Page 330		Page 332
1	prescribed procedure or monograph.	1	unidentified impurity, you're not discovering a new
2	However, if we see you know, we have	2	chemical compound, typically. Right?
3	clients that come to us repeatedly with the same	3	MR. NIGH: Form objection.
4	product that we need to release. We may release it	4	A. What do you mean by a "new chemical
5	once. And then next time we release it, if we see	5	compound"?
6	the same impurity, same place, same location, our	6	Q. Sure. When you perform structural
7	internal team often brings that up and say, "This	7	characterization to determine that something is NDMA,
8	impurity is showing up over and over again." And we	8	that is not to say that NDMA was previously unknown
9	often alert the client that we need to we	9	to science; it's that it was unknown to be or
10	should we recommend they identify it. And	10	unidentified as present in this particular substance.
11	identification of impurities, especially in	11	Is that accurate?
12	Q. Dr. Najafi, I have very limited time	12	MR. NIGH: Form objection.
13	with you	13	A. You know, there are really there's no
14	A is very easy.	14	new discoveries to be made. However, it could be.
15	(Court Reporter Clarification.)	15	You know, sometimes the unidentified impurity is
16	Q. Dr. Najafi and I appreciate, and I	16	completely a novel compound, never been reported.
17	understand your general comments there. My question	17	Sometimes. Most often, what we discover as an
18	is a little more specific.	18	unknown impurity you could actually, you know, look
19	Emery Pharma does not perform structural	19	into the literature and see, you know, what who
20	characterization of every unidentified impurity that	20	else has reported this impurity.
21	shows up on the chromatogram in release testing that	21	Q. I think I understand your answer.
22	it performs for its clients. Correct?	22	You mentioned that ICH Q3A and Q3B
23	MR. NIGH: Form objection.	23	contain guidance on the identification of
24	A. We do what the clients ask us to do.	24	unidentified impurities in both drug substances and
25	You know, if Novartis comes to us and say, "We saw	25	drug products. Is that fair?
	·		
1	Page 331 this chromatogram. We're trying to identify what are	1	Page 333 A. I think Q3A points to genotoxins, and
2	all these impurities," we do it for them. But we	2	you know, identifying them. And, you know, Q3A is
3	typically do what the clients want us to do.	~	you know, identifying them. And, you know, Q3A is
3		3	concerned for genotoxic impurities, as it relates to
1		3	concerned for genotoxic impurities, as it relates to
4	Q. So unless a client asks you to perform	4	presence of genotoxic impurities in residual solvent
5	Q. So unless a client asks you to perform structural characterization of every unidentified	4 5	presence of genotoxic impurities in residual solvent analysis and so forth.
5 6	Q. So unless a client asks you to perform structural characterization of every unidentified impurity for a given product, you would not undertake	4 5 6	presence of genotoxic impurities in residual solvent analysis and so forth. Q. And I want to be clear. Is it your
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5 6 7 8	Q. So unless a client asks you to perform structural characterization of every unidentified impurity for a given product, you would not undertake structural characterization of every unidentified impurity in products tested and released by Emery	4 5 6 7 8	presence of genotoxic impurities in residual solvent analysis and so forth. Q. And I want to be clear. Is it your understanding that ICH Q3A and B make specific recommendations for genotoxic substances?
5 6 7 8 9	Q. So unless a client asks you to perform structural characterization of every unidentified impurity for a given product, you would not undertake structural characterization of every unidentified impurity in products tested and released by Emery Pharma. Correct?	4 5 6 7 8 9	presence of genotoxic impurities in residual solvent analysis and so forth. Q. And I want to be clear. Is it your understanding that ICH Q3A and B make specific recommendations for genotoxic substances? MR. NIGH: Form objection.
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18 (Pages 330 - 333)

	Page 334		Page 336
1	"Guidance For Industry, Impurities in New Drug	1	undetected.
2	Substances"?	2	Q. Understood, and I do appreciate that
3	A. Yes, I am. I don't I don't have this	3	clarification.
4	guidance in the in the Drop in the in the	4	Dr. Najafi, my question is: Are you
5	share folder.	5	aware of any structural characterization of NDMA or
6	THE VIDEOGRAPHER: It should be there if	6	NDEA impurities in valsartan API that occurred prior
7	you refresh the page.	7	to June 2018?
8	A. Okay, got it. Yes.	8	MR. NIGH: Form objection.
9	Q. All right. Dr. Najafi, do you now have	9	A. Not in valsartan in particular, but I
10	access to the document?	10	think there were hints of nitrosation of valsartan by
11	A. Yes, I do.	11	Dr. Lee, in prior to June of 2018, and there is
12	Q. I'd like you to turn to page 10 of the	12	plenty of evidence that NDMA is just created from
13	guidance.	13	sodium nitrite.
14	A. Okay.	14	Q. And I understand that's your opinion,
15	THE VIDEOGRAPHER: Is that PDF page 10	15	Doctor, I think it's well-established, and I'm not
16	or document page 10?	16	trying to dispute that. I'm just asking to confirm
17	MR. HARKINS: It will be page 10 of the	17	that hints of nitrosation or those other things
18	guidance itself. It's page 13, I believe, of the	18	you're referring to, those are not structural
19	PDF.	19	characterization of the impurity. Correct?
20	Q. All right. Dr. Najafi, you see here how	20	MR. NIGH: Form objection.
21	ICH Q3A defines an unidentified impurity? Do you see	21	A. I believe it's structural
22	that definition, the second from the bottom?	22	characterization. There were some structural
23	A. Ten? Okay.	23	characterization of nitrosated valsartan, or maybe it
24	Q. Are you there?	24	was losartan, or the other sartans. I'd have to
25	A. Second from the bottom. "Unidentified	25	refer back to that testimony.
	Page 335		Page 337
1	Page 335 impurity," [inaudible]. Yep.	1	Page 337 Q. And I'm sorry, so now you're saying you
1 2		1 2	- 1
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19 (Pages 334 - 337)

	Page 338		Page 340
1	finished dose manufacturer, Torrent, on the	1	Q. And according to the ICHQ3 guidance, if
2	structural characterization of any nitrosamine	2	the impurity is greater than the identification
3	impurities in valsartan drug substance prior to	3	threshold, which is 0.01, there are certain actions
4	June 2018?	4	that are taken, including identifying the structure.
5	A. They might have been aware, I don't	5	Do you see that first step?
6	know. I have I have not been provided any	6	A. Could you repeat your question, please?
7	documents that points to the fact that they were	7	Sorry about that.
8	aware.	8	Q. Sure. The starting point for this
9	Q. Doctor, if you can go ahead and turn to	9	decision tree is to determine, "Is the impurity
10	the next page of the Q3A guidance. At the top, it	10	greater than the identification threshold?"
11	indicates "Attachment 1, Thresholds."	11	You see that. Correct?
12	A. What page are you talking about?	12	A. Right, exactly.
13	Q. It's the very next page: Number 11 on	13	Q. And maybe this will short-circuit it.
14	the document, number 14 in the PDF.	14	If the impurity is not greater than the
15	A. Okay.	15	identification threshold, the ICH guidance Q3A
16	Q. Let me know when you're there.	16	indicates that no action should be taken. Is that
17	A. Yes, I'm here.	17	correct?
18	Q. The first column here indicates "Maximum	18	A. Correct.
19	Daily Dose." You would agree that the 320-milligram	19	MR. HARKINS: Let's go ahead and take
20	valsartan pill would fall under the first row: Less	20	that down. I'd like to introduce the next exhibit.
21	than or equal to two grams per day. Correct?	21	It's going to be ICH Q3B.
22	A. That's correct.	22	(Exhibit Najafi-19, FDA Document
23	Q. And the reporting threshold, which is	23	entitled "Guidance for Industry, Q3B(R2) Impurities
24	indicated here, is that 0.05 percent that we	24	in New Drug Products," Revision 3, August 2006, No
25	previously discussed and, as we previously discussed,	25	Bates, 18 Pages, was received and marked for
	Page 339		Page 341
1	that reporting threshold would be more than double	1	identification.)
2			raeminieum)
	the maximum reported amount of nitrosamine in ZHP	2	(Court Stenographer clarification.)
	the maximum reported amount of nitrosamine in ZHP valsartan API that you are aware of. Correct?	2 3	(Court Stenographer clarification.) (A discussion is held off the record.)
3	valsartan API that you are aware of. Correct?	3	(A discussion is held off the record.)
3 4	valsartan API that you are aware of. Correct? A. Correct.	3 4	(A discussion is held off the record.) THE VIDEOGRAPHER: Going off the video
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	Page 342		Page 344
1	but are you do you have a specific question?	1	question I have for you, Dr. Najafi, thank you.
2	Q. So my question you testified earlier	2	MR. NIGH: Okay. Let's go ahead and
3	that you were not you were not aware of what	3	take a break and go into the breakout room.
4	documents Teva reviewed, as it related to ZHP's DMF;	4	THE VIDEOGRAPHER: Going off the video
5	and I want to know if the same is true of Torrent?	5	record. The time is 10:54 a.m.
6	A. I've only reviewed what was provided to	6	(A brief recess takes place.)
7	me through the lawyers, so.	7	THE VIDEOGRAPHER: We are back on the
			video record. The time is 11:05 a.m.
		8	
9	testimony, you confirmed for Mr. Harkins that when	9	MR. NIGH: Okay. It's my understanding
10	you say the finished dose manufacturers "rushed and	10	that Torrent, Teva and ZHP have finished their
11	accepted the risk," that was based on your assumption	11	questioning. There's nobody else on the defense
12	that they must have rushed because they didn't	12	side, right?
13	identify the impurity, and not based on an	13	MR. HARKINS: Correct.
14	independent review of documents from Teva.	14	MS. ROSE: Yep.
15	Do you remember that?	15	MR. NIGH: Okay. At this time, we don't
16	MR. NIGH: Form objection.	16	have any other questions; we're done. Thank you.
17	A. It is my conclusion that based on the	17	THE VIDEOGRAPHER: Going off the video
18	fact that they allowed the genotoxic impurity to be	18	record; the time is 11:05 a.m.
19	released in the drug product.	19	(The proceedings concluded at 11:05 a.m.
20	And Novartis just did a temp hold	20	Pacific Time)
21	GC-FID, GC-F GC-FID. And by GC-FID, they were	21	
22	able to see a lot of impurities, and they didn't want	22	
23	to take that chance. They could have they could	23	
24	have gone ahead too, but they didn't.	24	
25	Q. Okay. So just to be clear, that's	25	
	Page 343		Page 345
1	not that opinion is not based on documents you	1	DANIEL NIGH, ESQ.
2	reviewed from Torrent. Correct?	2	dnigh@levinlaw.com
3	A. I have reviewed a lot of documents. I	3	January 27, 2023
4	do not recall specifically, you know, any	4	RE: In Re: Valsartan, Losartan, Et Al
5	chromatogram. But if you have anything you want to	5	1/24/2023, Ramin (Ron) Najafi , PhD (#5677117)
6	share with me, I'll be happy to review, give you my	6	
7		0	The above-referenced transcript is available for
	opinion.		The above-referenced transcript is available for review.
8	opinion. Q. Okay. So that leads to my next		-
8 9		7	review.
	Q. Okay. So that leads to my next	7 8	review. Within the applicable timeframe, the witness should
9	Q. Okay. So that leads to my next question, which is: Did you review and evaluate any	7 8 9	review. Within the applicable timeframe, the witness should read the testimony to verify its accuracy. If there are
9 10	Q. Okay. So that leads to my next question, which is: Did you review and evaluate any of the chromatography testing for API that Torrent	7 8 9 10	review. Within the applicable timeframe, the witness should read the testimony to verify its accuracy. If there are any changes, the witness should note those with the
9 10 11	Q. Okay. So that leads to my next question, which is: Did you review and evaluate any of the chromatography testing for API that Torrent performed?	7 8 9 10 11	review. Within the applicable timeframe, the witness should read the testimony to verify its accuracy. If there are any changes, the witness should note those with the reason, on the attached Errata Sheet. The witness should sign the Acknowledgment of
9 10 11 12	Q. Okay. So that leads to my next question, which is: Did you review and evaluate any of the chromatography testing for API that Torrent performed? MR. NIGH: Form objection. A. I do not recall.	7 8 9 10 11 12	review. Within the applicable timeframe, the witness should read the testimony to verify its accuracy. If there are any changes, the witness should note those with the reason, on the attached Errata Sheet. The witness should sign the Acknowledgment of Deponent and Errata and return to the deposing attorney.
9 10 11 12 13	Q. Okay. So that leads to my next question, which is: Did you review and evaluate any of the chromatography testing for API that Torrent performed? MR. NIGH: Form objection. A. I do not recall. Q. Okay. And Dr. Najafi, have you seen any	7 8 9 10 11 12 13	review. Within the applicable timeframe, the witness should read the testimony to verify its accuracy. If there are any changes, the witness should note those with the reason, on the attached Errata Sheet. The witness should sign the Acknowledgment of Deponent and Errata and return to the deposing attorney. Copies should be sent to all counsel, and to Veritext at
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9 10 11 12 13 14 15 16	Q. Okay. So that leads to my next question, which is: Did you review and evaluate any of the chromatography testing for API that Torrent performed? MR. NIGH: Form objection. A. I do not recall. Q. Okay. And Dr. Najafi, have you seen any evidence that Torrent was aware of the potential nitrosamine formation in the API or valsartan	7 8 9 10 11 12 13 14 15 16	review. Within the applicable timeframe, the witness should read the testimony to verify its accuracy. If there are any changes, the witness should note those with the reason, on the attached Errata Sheet. The witness should sign the Acknowledgment of Deponent and Errata and return to the deposing attorney. Copies should be sent to all counsel, and to Veritext at cs-nj@veritext.com.
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1	JURAT.	1	CERTIFICATE
2		2	I, ELLEN J. GODINO, CCR, CRCR, RPR, do hereby certify that prior to the commencement of the
3	I DO HEREBY CERTIFY that I have read	3 4	examination, DR. RAMIN (RON) NAJAFI was duly sworn by
4	the foregoing transcript of my deposition testimony	5	me to testify the truth, the whole truth and nothing
5	and I certify that is it true and correct to the	6	but the truth.
6	best of my knowledge.	7	I DO FURTHER CERTIFY that the foregoing is a
7		8	true and accurate transcript of the testimony as
8		9	taken stenographically by and before me at the time,
9		10	place and on the date hereinbefore set forth, to the
10		11	best of my ability.
11		12	I DO FURTHER CERTIFY that I am neither a
12		13	relative nor employee nor attorney nor counsel of any
13		14 15	of the parties to this action, and that I am neither a relative nor employee of such attorney or counsel,
14		16	and that I am not financially interested in the
		17	action.
15	CWODN AND CURCODIDED	18	
16	SWORN AND SUBSCRIBED		Exten J. Grain
17	BEFORE ME ON THIS	19	
18	DAY OF 2023		ELLEN J. GODINO
19		20	CERTIFIED COURT REPORTER
20	Notary Public of the State of	2.1	REGISTERED PROFESSIONAL REPORTER
21		21	CERTIFIED REALTIME COURT REPORTER
22		22	DATED: January 27, 2023
23		23	
24		24	
25		25	
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17	ATTACH TO DEPOSITION OF RAMIN (RON) NAJAFI, Ph.D.: IN THE MATTER OF: VALSARTAN DATE TAKEN: January 24, 2023 ERRATA SHEET INSTRUCTIONS: After reading the transcript of testimony, please note any change, addition or deletion on this sheet. DO NOT make any marks or notations on the transcript itself. Please sign and date this errata sheet and return it to the court reporter whose name is shown below. PAGE LINE CHANGE		
18 19 20 21 22 23 24 25	DATE and SIGNATURE:		

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- (e) Review By the Witness; Changes.
- (1) Review; Statement of Changes. On request by the deponent or a party before the deposition is completed, the deponent must be allowed 30 days after being notified by the officer that the transcript or recording is available in which:
- (A) to review the transcript or recording; and
- (B) if there are changes in form or substance, to sign a statement listing the changes and the reasons for making them.
- (2) Changes Indicated in the Officer's Certificate. The officer must note in the certificate prescribed by Rule 30(f)(1) whether a review was requested and, if so, must attach any changes the deponent makes during the 30-day period.

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ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY.

THE ABOVE RULES ARE CURRENT AS OF APRIL 1,

2019. PLEASE REFER TO THE APPLICABLE FEDERAL RULES

OF CIVIL PROCEDURE FOR UP-TO-DATE INFORMATION.

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